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To Attn: Examiner Yelena Gakh, Group 1743

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Date December 3, 2004 Pages including cover 17

Subject Response to Official Action

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Re: Application of Dwight Sherod WALKER et al.  
U.S. Serial No.: 10/009,704; Filed: October 29, 2001  
Title: *Method and System for Detecting Trace  
Materials in Cryogenic Liquids*  
Attorney Docket No. PU3682USw

### Attached:

1. Transmittal Form (in duplicate) with a Certificate of Transmission (37 CFR 1.8(a))
2. Response to Official Action (15 pages)

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PTO/SB/21 (08-03)

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|   |                      |                        |
|---|----------------------|------------------------|
| <b>TRANSMITTAL FORM</b><br>(to be used for all correspondence after initial filing) | Application Number   | 10/09,704              |
|   | Filing Date          | October 29, 2001       |
|   | First Named Inventor | Dwight Sherod WALKER   |
|   | Art Unit             | 1743                   |
|   | Examiner Name        | Gakh, Yelena G.        |
| Total Number of Pages In This Submission  |                      | Attorney Docket Number |
|   |                      | FU3682USw              |

| ENCLOSURES (check all that apply)   |   |  |
|---|---|--|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input checked="" type="checkbox"/> Amendment / Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br><input type="checkbox"/> Change of Correspondence<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance communication to Group<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input type="checkbox"/> Other Enclosure(s) (please identify below): _____ |
| Remarks<br>Applicants believe that no fee is required for this submission. However, the Commissioner is hereby authorized to charge any fees required or credit any overpayment to Deposit Account No. 07-1392.   |   |  |

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|                         |  |
|-------------------------|--|
| Firm or Individual name | Robert J. Smith<br>Registration No. 40,820<br>Telephone: (919)483-9616 |
| Signature               | <i>Robert J. Smith</i>   |
| Date                    | December 3, 2004   |

## CERTIFICATE OF TRANSMISSION/MAILING

|  |                             |      |                  |
|--|-----------------------------|------|------------------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this |                             |      |                  |
| Typed or printed name  | Marjorie J. Pfeiffer        |      |                  |
| Signature  | <i>Marjorie J. Pfeiffer</i> | Date | December 3, 2004 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

**Walker, et al.**

FOR: **Method and System for  
Detecting Trace Materials  
In Cryogenic Liquids**

SERIAL NO: 10/009,704

FILED: **October 29, 2001**

ART UNIT NO: 1743

EXAMINER: **Y. Gakh**

DOCKET NO: **PU3682USW**

**AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The following amendments and remarks are made in response to the outstanding Office Action dated September 3, 2004 in the above-cited patent application. Reexamination and reconsideration are respectfully requested in view of the amendments and remarks.

Please amend the application as follows:

**Amendments to the Specification** begin on page 2 of this paper.

**Amendments to the Claims** are reflected in the listing of claims that begins on page 4 of this paper.

**Remarks** begin on page 8 of this paper.